BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY

CONTINUATION OF THE BULLETIN OF THE NEW YORK MATHEMATICAL SOCIETY.

A HISTORICAL AND CRITICAL REVIEW OF MATHEMATICAL SCIENCE.

EDITED BY

T. S. FISKE, F. N. COLE, A. ZIWET,
F. MORLEY, E. O. LOVETT.

VOL. V

OCTOBER 1898 TO JULY 1899.

PUBLISHED FOR THE SOCIETY
BY
THE MACMILLAN COMPANY,
LANCASTER, PA., AND NEW YORK,
1899.

2ND SERIES, VOL. V. NO. 1

OCTOBER, 1898.

Whole No. 71.

CONTENTS.

PAGE.

The Fifth Summer Meeting of the American Mathematical Society. By Professor F. N. COLE, 1

Note on the Generalization of Poincaré and Goursat's Proof of a Theorem of Weierstrass's. By Professor W. F. OSGOOD, 14

Supplementary Note on a Single-Valued Function with a Natural Boundary, whose Inverse is also Single-Valued. By Professor W. F. OSGOOD, 17

Note on the Periodic Developments of the Equation of the Center and of the Logarithm of the Radius Vector. By Professor ALEXANDER S. CHESSIN, 18

The Theorems of Oscillation of Sturm and Klein. By Professor MAXIME BÔCHER, 22

Notes, 44

New Publications, 51

2ND SERIES, VOL. V. NO. 2

NOVEMBER, 1898.

Whole No. 72.

CONTENTS.

PAGE.

The Cambridge Colloquium. By Professor H. S. WHITE, 57

Selected Topics in the General Theory of Functions. By Professor W. F. OSGOOD, 59

The Fiftieth Anniversary Meeting of the American Association for the Advancement of Science. By Professor JAMES MCMAHON, 87

Notes, 105

New Publications, 110

2ND SERIES, VOL. V. NO. 3.

DECEMBER, 1898.

Whole No. 73.

CONTENTS.

PAGE.

The October Meeting of the American Mathematical Society. By Professor F. N. COLE, 113

Concerning a Linear Homogeneous Group in $C_{m,q}$ Variables Isomorphic to the General Linear Homogeneous Group in m Variables. By Dr. L. E. DICKSON, 120

A Second Locus Connected with a System of Coaxial Circles. By Professor THOMAS F. HOLGATE, 135

Reciprocal Transformations of Projective Coördinates and the Theorems of Ceva and Menelaos. By Professor ARNOLD EMCH, 143

Notes, 150

New Publications, 157

2ND SERIES, VOL. V. NO. 4.

JANUARY, 1899.

Whole No. 74.

CONTENTS.

PAGE.

Report on the Theory of Projective Invariants: The Chief Contributions of a Decade. By Professor H. S. WHITE, 161

Reye's Geometrie der Lage. By Professor CHARLOTTE ANGAS SCOTT, 175

Burkhardt's Theory of Functions. By Professor MAXIME BÔCHER, 181

Darboux's Orthogonal Systems. By Professor EDGAR ODELL LOVETT, 185

The New Mathematical Encyclopedia. By Professor JAMES PIERPONT, 202

Errata, 207

Notes, 208

New Publications, 212

2ND SERIES, VOL. V. NO. 5.

FEBRUARY, 1899.

Whole No. 75.

CONTENTS.

PAGE.

The Fifth Annual Meeting of the American Mathematical Society. By Professor F. N. COLE, 217
The December Meeting of the Chicago Section. By Professor THOMAS F. HOLGATE, 222
Report on Recent Progress in the Theory of Groups of a Finite Order. By Dr. G. A. MILLER, 227
Note on Burnside's Theory of Groups. By Dr. G. A. MILLER, 249
On a Regular Configuration of Ten Line Pairs Conjugate as to a Quadric. By Professor F. MORLEY, 252
Bessel's Functions. By Dr. VIRGIL SNYDER, 253
Shorter Notices, 259
Notes, 265
New Publications, 272

2ND SERIES, VOL. V. NO. 6.

MARCH, 1899.

Whole No. 76.

CONTENTS.

PAGE.

On Singular Points of Linear Differential Equations with Real Coefficients. By Professor MAXIME BÔCHER, 275
The Hessian of the Cubic Surface. By Dr. J. I. HUTCHINSON, 282
On the Simple Isomorphisms of a Hamiltonian Group to Itself. By Dr. G. A. MILLER, 292
Galois's Collected Works. By Professor JAMES PIERPONT, 296
Three Memoirs on Geometry. By Professor EDGAR ODELL LOVETT, 300
Stahl's Abelian Functions. By Professor VIRGIL SNYDER, 308
Calculus of Finite Differences. By Professor D. A. MURRAY, 313
Notes, 316
New Publications, 321

2ND SERIES, VOL. V. NO. 7

APRIL, 1899.

Whole No. 77.

CONTENTS.

PAGE.

The February Meeting of the American Mathematical Society. By Professor F. N. COLE, 325

Determinants of Quaternion. By Professor JAMES MILLS PEIRCE, 335

The Largest Linear Homogeneous Group with an Invariant Pfaffian. By Dr. L. E. DICKSON, 338

Asymptotic Lines on Ruled Surfaces Having Two Recti-linear Directrices. By Dr. VIRGIL SNYDER, 343

Wilson's Graphics. By Dr. J. B. CHITTENDEN, 353

Pascal's Repertorium of Higher Mathematics. By Professor EDGAR ODELL LOVETT, 357

D'Ocagne's Descriptive and Infinitesimal Geometry. By Professor EDGAR ODELL LOVETT, 362

Sophus Lie. By Professor GASTON DARBOUX. Translated by Professor EDGAR ODELL LOVETT, 367

Notes, 370

New Publications, 374

2ND SERIES, VOL. V. NO. 8.

MAY, 1899.

Whole No. 78.

CONTENTS.

PAGE.

The April Meeting of the Chicago Section. By Professor THOMAS F. HOLGATE, 379

An Elementary Proof that Bessel's Functions of the Zeroth Order Have an Infinite Number of Real Roots. By Professor MAXIME BÔCHER, 385

A Generalization of Appell's Factorial Functions. By Dr. E. J. WILCZYNSKI, 388

On the Arithmetization of Mathematics. By Professor JAMES PIERPONT,

Two Books on Tides. By Professor ERNEST W. BROWN, 406

Notes, 413

New Publications, 419

2ND SERIES, VOL. V. No. 9

JUNE, 1899.

Whole No. 79.

CONTENTS.

PAGE.

The April Meeting of the American Mathematical Society. By Professor F. N. COLE, 423

Surfaces of Revolution in the Theory of Lamé's Products. By Dr. F. H. SAFFORD, 431

Picard's Algebraic Functions of Two Variables. By ARTHUR BERRY, M.A., 438

Note on Page's Ordinary Differential Equations. By Dr. L. E. DICKSON, 451

Tannery's Arithmetic. By Professor JAMES PIERPONT. 455

Notes, 458

New Publications, 461

2ND SERIES, VOL. V. No. 10.

JULY, 1899.

Whole No. 80.

CONTENTS.

PAGE.

The Asymptotic Lines of the Kummer Surface. By Dr. J. I. HUTCHINSON, 465

On a Definitive Property of the Covanant. By Mr. C. J. KEYSER, 468

The Known Finite Simple Groups. By Professor L. E. DICKSON, 470

The Geometry of Movement. By. Professor F. MORLEY, 476

The New Edition of Weber's Algebra. By Professor JAMES PIERPONT, 480

Shorter Notices, 483

On Elliptic Functions. By Professor JAMES PIERPONT, 490

Notes, 493

New Publications, 496

Eight Annual List of Published Papers, 499

Index, 502